

## ***Section 5: Modern Genetics & Cloning***

In section 5 of your second semester map, you will draw or write everything that you know about Modern Genetics & Cloning. You should at least answer all of the following questions:

1. Define genetic cloning. What techniques did scientists use to clone the sheep Dolly? Why is this such a hot debate? What scares people about cloning?
2. Define stem cell. Why is there such a heated debate about stem cell research in America? Why do scientists believe that stem cells are beneficial to the human kind?
3. Define PCRs, gel electrophoresis and DNA fingerprinting. How do these
4. What is the underlying principal behind the Movie “GATACCA?” Why do you think the author wrote such a screenplay? What fears do you think he might have had and how does it relate to genetics.
5. In the section separating 4 and 5, explain how Evolution relates to the 4 sections above.
6. In the section separating 5 and 1, explain how all this information are related to DNA.